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**From:** Radke-Farabaugh, Elizabeth [radke-farabaugh.elizabeth@epa.gov]  
**Sent:** 7/7/2016 11:54:22 AM  
**To:** Birchfield, Norman [Birchfield.Norman@epa.gov]; Rieth, Susan [Rieth.Susan@epa.gov]  
**CC:** Lin, Yu-Sheng [Lin.Yu-Sheng@epa.gov]  
**Subject:** RE: phthalates exposure evaluation  
**Attachments:** Phthalate-Exposure-Protocol.docx; Johns\_Phthalates\_Environ Int\_2015.pdf

In the meantime, here is the exposure evaluation protocol that we use and the journal article that Sue mentioned. I'm happy to talk more about it whenever is convenient.

Beth

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**From:** Birchfield, Norman  
**Sent:** Wednesday, July 06, 2016 7:02 PM  
**To:** Rieth, Susan <Rieth.Susan@epa.gov>  
**Cc:** Radke-Farabaugh, Elizabeth <radke-farabaugh.elizabeth@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>  
**Subject:** Re: phthalates exposure evaluation

Great - lets talk when you have a few minutes! Thanks

Sent from my iPhone

On Jul 6, 2016, at 5:54 PM, Rieth, Susan <[Rieth.Susan@epa.gov](mailto:Rieth.Susan@epa.gov)> wrote:

Hey Norm,

Beth would certainly be the right person to speak to, but I might also have some background based on work that Glinda did on assessing phthalate exposure a couple of years ago (or so). I know that Glinda worked with university researchers on this topic (and I think Audrey participated). A journal article also came out of this work. Not sure if that's what you're interested in, but happy to tell you what little I know. I'm back in the office tomorrow (Thursday). Sue

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**From:** Birchfield, Norman  
**Sent:** Wednesday, July 6, 2016 5:19 PM  
**To:** Radke-Farabaugh, Elizabeth  
**Cc:** Lin, Yu-Sheng; Rieth, Susan  
**Subject:** phthalates exposure evaluation

Hey Beth

I saw you do a great presentation a while back on evaluating exposure in epi studies on phthalates. Yu-Sheng is considering doing something similar for epi studies on PFOA/PFOS. Could you share with him the paper/presentation that you had on your work? If you have any thoughts or suggestions for us going forward that would be great.

Thanks!

Norm

Norman Birchfield, Ph.D. / National Center for Environmental Assessment / U.S. Environmental Protection Agency / phone: (703) 347-0174